PNY SSD UPGRADE KIT

- Install Guide with downloadable Acronis® Software -

PNY SSD Upgrade Kit Installation Guide

The PNY Solid State Drive (PNY SSD) is the latest solution in storage technology that provides significant benefits versus traditional hard drives. SSDs offer improved operations across your entire system in terms of superior performance, improved boot times, faster application loading, longer battery life and greater shock resistance.

The PNY SSD Upgrade Kit offers you the easy to use Acronis® TrueImage data migration software, which provides a complete system cloning of your existing hard drive onto your new storage device (SSD or HDD, not included). All necessary accesssory is provided to perform the switch including a USB 3.0 portable enclosure for 2.5" SATA-based storage drives enabling cloning of the actual hard drive to the new storage device for laptops, as well as a 3,5" to 2,5" internal bay for desktop installation.

This device complies with Part 15 FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference. (2) This device must accept any interference received, including interference that may cause undesired operations. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit, different from the outlet that the receiver is connected.

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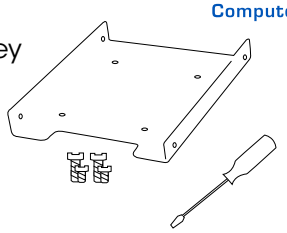
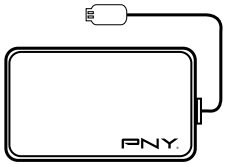
What's Inside



- « Getting Started with Acronis®» guide with one unique software license key
- 3.5" to 2,5" desktop drive bay adapter and drive mounting screws
- SATA III data cable
- Screwdriver
- 2.5" USB 3.0 external drive enclosure
- USB 3.0 cable



Note : It may help to print this manual for easy reference before starting the hardware change. Visit **www.pny.com** for US and **www.pny.eu** for Europe.

Before You Begin

- Please read and understand this guide before starting the installation
- You may also want to print this Guide for easy reference before starting the upgrade process
- If possible create (or purchase) a set of recovery disks for your system. (Consult your manufacturer's manual for instructions)
- Backup your hard disk or at minimum, your important files

Important Considerations :

- To install a SSD in a desktop system, you may need the included 3.5" to 2,5" drive bay adapter.
- PNY or other SSDs are intended as replacements for traditional hard drives and solid state drives; please consult your system manual or manufacturer for instructions on installing a new hard drive or SSD. This procedure will vary by system manufacturer and model.
- PNY or other SSDs are most of the time, shipped unformatted without any operating system, programs, or data installed. Please be sure that you have the necessary installation disks for your existing OS and programs.
- If you are replacing your boot drive, it is recommended that you "clone" the existing boot drive onto your PNY or other SSD before you do anything else.
- If the amount of used storage on your current hard drive exceeds the available space on your new PNY or other SSD, it is recommended that you back-up the data from your current hard drive, using the "manual" cloning method to copy your OS, system utilities and applications from your current hard drive to the PNY or other SSD. You can then restore selected data from your HDD drive or backup storage device onto your new PNY or other SSD.
- As with any computer upgrade, please ensure you are properly grounded and free of static electricity before continuing. This can be achieved by wearing an anti-static wrist strap, using grounded components such as work pads, and using a clear workspace free of electrical devices.
- PNY is not responsible for lost or missing data or damage to your system resulting from installation of the PNY or other SSD or the cloning process.
- If you are not familiar or comfortable with the installation process for your new drive, it is highly recommended that you visit your local computer retailer or service center for assistance.

Note : It is also possible to restore a system from its hard drive to your PNY or other SSD from a backup created using 3rd party backup products. Given the variety of backup products available, it is beyond the scope of this manual to detail this process. Please refer to your backup software's manual for details.

System Requirements

• Mouse or other pointing device (recommended)

Software :
• Windows XP SP3
• Windows XP Professional x64 Edition SP2
• Windows Vista SP2 (all editions)
• Windows 7 SP1 (all editions)
• Windows 8 (all editions)

Note: Mac users should refer to the Apple website for information on the Time Machine application (sold separately) that performs many of the functionalities of the Acronis® TrueImage software with regards to system back up and restore.

• Internet access (to download your copy of the Acronis® TrueImage Software)
• System Memory: 512 MB RAM
• Processor: Pentium 1 GHz or faster
• Screen resolution: 1280 x 1024
• Minimum screen resolution: 1024 x 768

External USB 3.0 Enclosure:
• Fits one 2.5" Hard Drive or Solid State Drive
• Windows XP/Vista/7/8 (32/64 bit), MAC OS 10.3 or later
• PC or Notebook with either of the following: One free USB 3.0 or 2.0 port

Preparing Your System

Turn off and disconnect your computer from its main power source prior to installation : disconnect the power cord and/or extension cord from the electrical outlet. For notebooks, remove the battery pack. Please refer to the User's Manual provided by your system manufacturer for instructions on removing also the battery and accessing the hard drive.

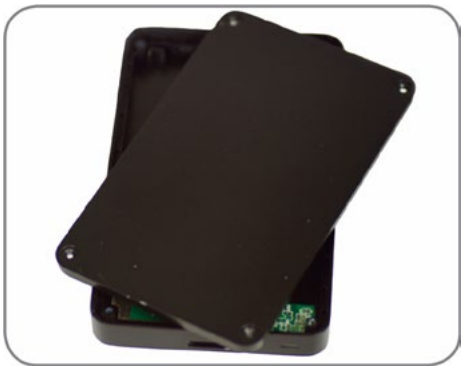
Installation overview

The PNY SSD Upgrade Kit allows you to replace your existing primary drive or boot device, using Acronis® TrueImage and the external USB 3.0 enlcosure..

The process described herebelow will allow you to copy or clone your Operating System, files and programs from your existing storage drive to the new SSD. Please ensure the total data size of your system does not exceed the capacity of your new SSD.

Setting Up the PNY or other SSD as Your Primary Boot Drive
Cloning Your Current System

1. Open the 2.5" external USB Enclosure by locating the housing screws and using the screwdriver provided to remove screws.



2. Locate the external USB Enclosure's SATA drive connector and align it with your hard drive's SATA pins, pushing them together carefully until the drive is securely in place.

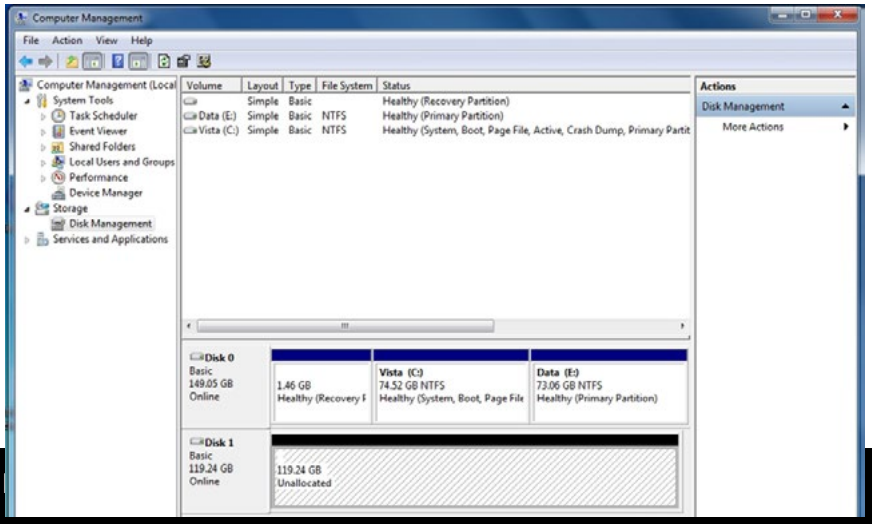
WARNING: **DO NOT TOUCH** the connector pins and contacts on either device

3. Close the 2.5"external USB Enclosure housing and fasten the housing screws to secure

4. The USB cable will provide both power and data transfer.
   - Depending on your system hardware, you have the option of connecting to a USB 3.0 or USB 2.0 port. It is recommended that you connect to the USB 3.0 port in your system for best performance.
   - Driver Installation – Windows will automatically detect and install the drivers for the external USB Drive.

5. Verify you have connected the PNY or other SSD to your system Using the External USB Enclosure.
   - From the Start menu, type "**administrative tools**" in the "**Search programs and files**" search box, click on "**administrative tools**" and then double-click "**Computer management**" and then click "**Disk management**"

Note: The new SSD does not require pre-formatting to use Acronis® TrueImage



Downloading, installing and registering your Acronis® TrueImage Cloning Software

To download your Acronis® TrueImage software, go to : **http://MyMigrationSoftware.pny.eu**
Choose your language and start downloading the executable file (Windows compatible only).

Once the download complete, double-click on the executable file to launch the installation process. On the first launch, the splash screen will display a text-box asking for a 64-characters activation key.
Click on the « I have only short key » link available on the bottom right of the dialog box.

The link « I have only short key » leads to the Acronis® TrueImage registration page. Fill in the required information, and use the 16-digits short key in your kit box as « Activation Key / Stub Key ». Your definitive 64-digit key will be emailed back to you. Simply copy and paste it into the Acronis® TrueImage splash screen text-box, and run the software.

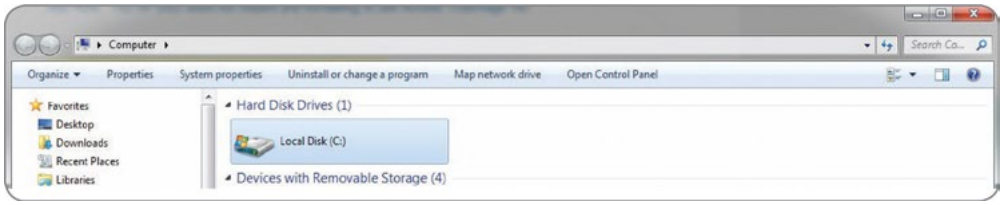
Using Acronis® TrueImage Cloning Software

Please examine your system configuration before starting the cloning process.

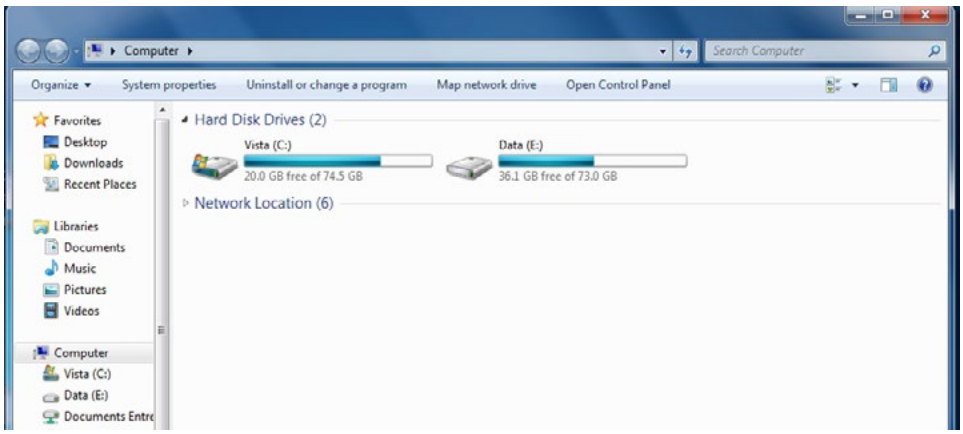
Note: You can remove files that are no longer needed from your hard disk until the amount of used storage is less than the available space on your new PNY or other SSD drive.

Note: (advanced Users) If the amount of used storage on your current hard drive exceeds the available space on your new PNY or other SSD, it is recommended that you back-up the data from your current hard drive, use the "**manual**" cloning method to copy your OS, system utilities and applications, and then restore selected data onto your new PNY or other SSD. Acronis® TrueImage allows the user to "**exclude**" files during "**manual**" cloning.

If your system drive has a single drive partition (not counting any hidden system partition) go to the "**Using Acronis® TrueImage Systems With a Single Partition"** section of the installation guide. It contains instructions to copy your data from your system drive to the PNY SSD before proceeding with the remaining steps.



If your system drive has multiple partitions go to the "**Using Acronis® TrueImage, Systems With Multiple Partitions**" section of the installation guide. It contains instructions to clone your data from your System drive to the PNY or other SSD before proceeding with the remaining steps. An example of a multiple partition system is below where C: and E: are all partitions on a SINGLE drive.

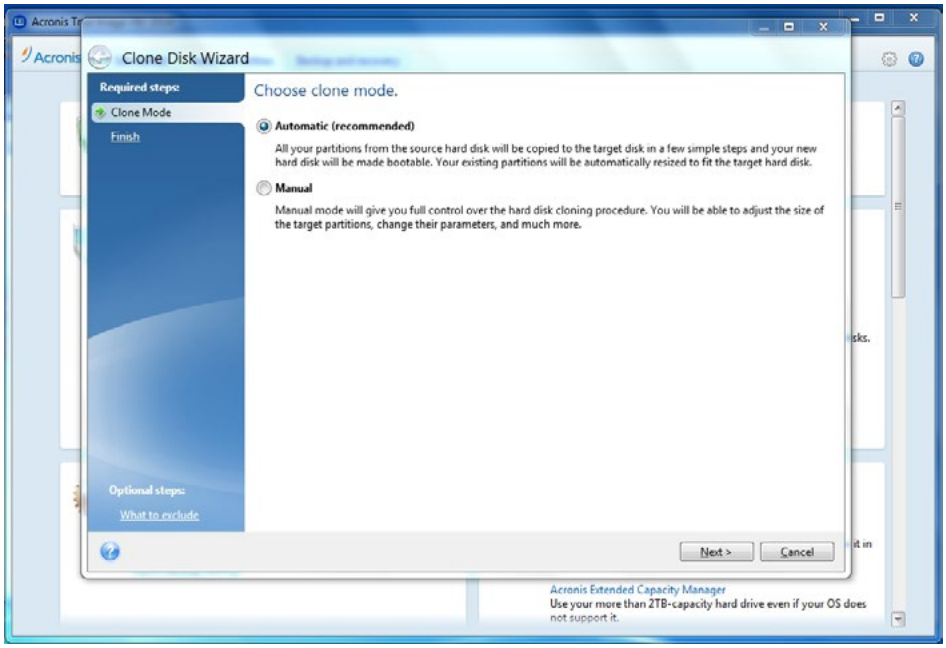


Using Acronis® TrueImage – Systems With a Single Partition

The following Acronis® TrueImage guide will cover the "automatic" cloning method. This is a viable option when the available capacity of the SSD is greater than the size of the data contained in the single drive partition to be cloned.

1. Verify you have properly connected the PNY or other SSD to your system using the USB 3.0 externa enclosure provided.
   - From the Start menu, type "**administrative tools**" in the "**Search programs and files**" search box, click on "**administrative tools**" and then double-click "**Computer management**" and then click "**Disk management**"
   - Double click on the Acronis® TrueImage HD icon to launch the software.
   - On the « Tools & Utilities » tab, select « Clone Disk »

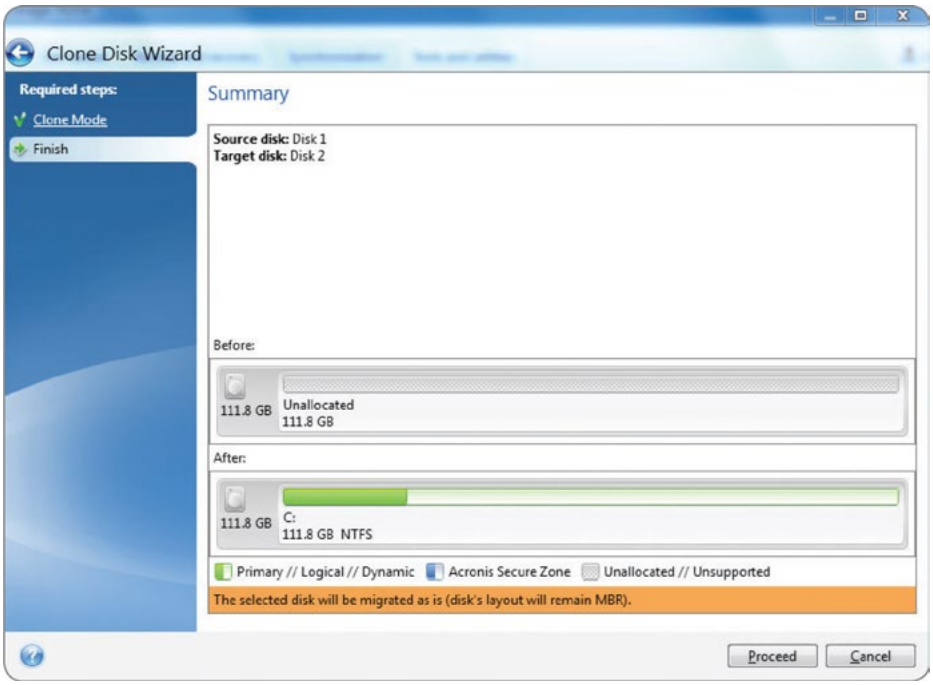
2. Select the Clone Mode
   - In the **Clone Disk Wizard** select **automatic mode**



Note: If the program finds two disks, one partitioned and another unpartitioned, it will automatically recognize the partitioned disk as the source disk and the unpartitioned disk as the destination disk. In such case, the next steps will be bypassed and you will be taken to the cloning Summary screen.

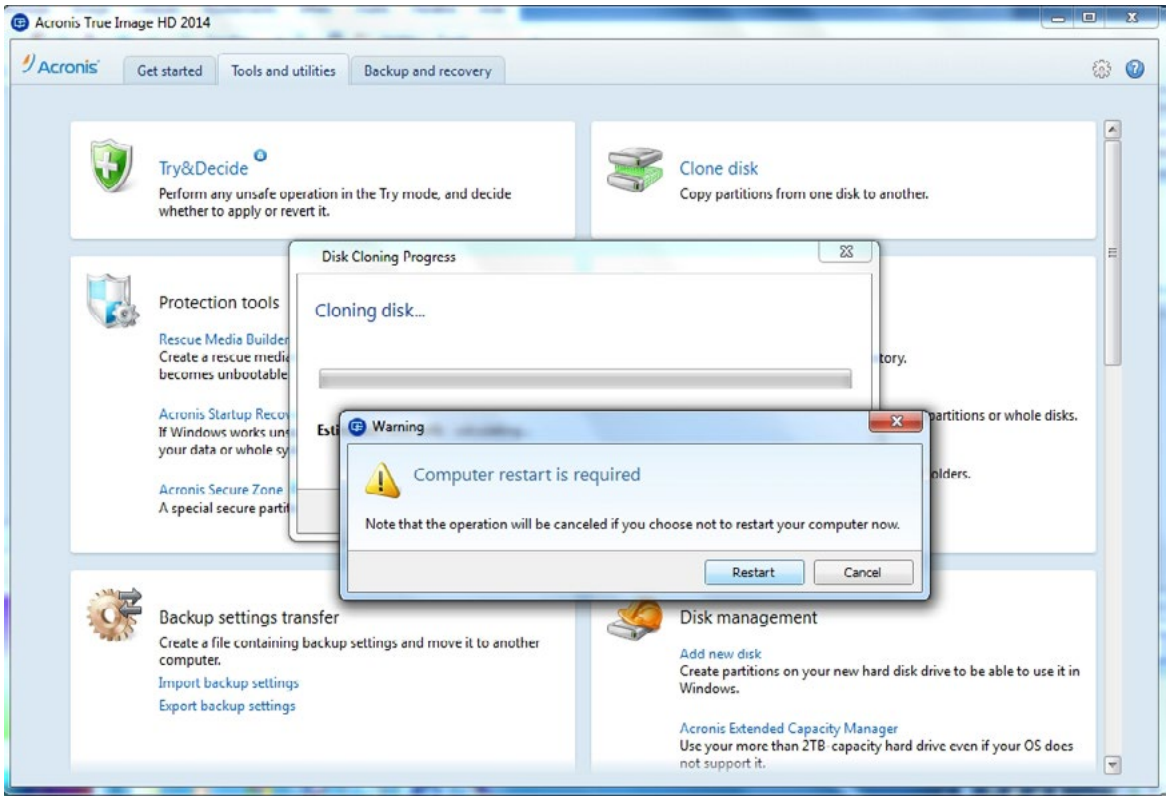
3. Cloning Summary

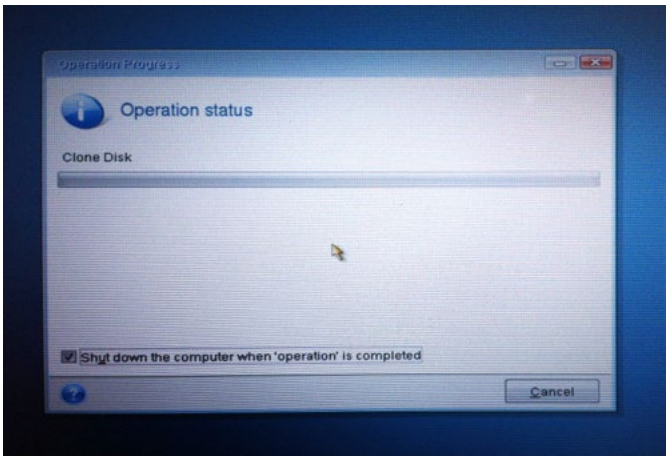
The cloning summary window graphically (as rectangle bars) illustrates information about the source disk (partitions and unallocated space) and destination disk layout. Along with the disk number, some additional information is provided: disk capacity, label, partition and file system information.



- Click **Proceed** to start disk cloning (requires a computer restart).
- Click **Cancel** to cancel the procedure and start over from the beginning.

Note: If you select Cancel you will have to repartition and format the new SSD or repeat the cloning procedure starting from the beginning of this section.



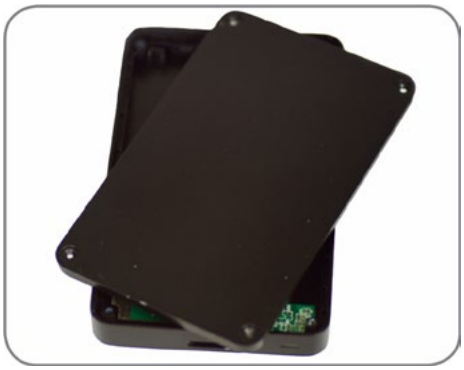


It is recommended that the "**Shut down the computer when Clone Disk is completed**" box is checked to prevent rebooting to the cloned disk.

CLONING COMPLETE – Your PNY or other SSD is now ready to replace with your internal storage drive.

4. Optional, Remove and Transfer Your Current System Hard Drive to the portable USB Drive Enclosure:
   - Refer to your system manufacturer's User Guide for instructions on locating and removing the hard drive.
   - Carefully remove the system hard drive and disassemble the hard drive bracket, if present.

⚠ **WARNING : DO NOT** Discard the drive bracket or screws– they will be used when installing the SSD.
   - Open the 2.5" external USB Enclosure by locating the housing screws and using the screwdriver provided to remove screws.
- Remove the PNY or other SSD and set it aside.



5. Connect the Hard Drive to the Enclosure
   - Locate the external USB Enclosure's SATA drive connector and align it with your hard drive's SATA pins, pushing them together until the drive is securely in place.

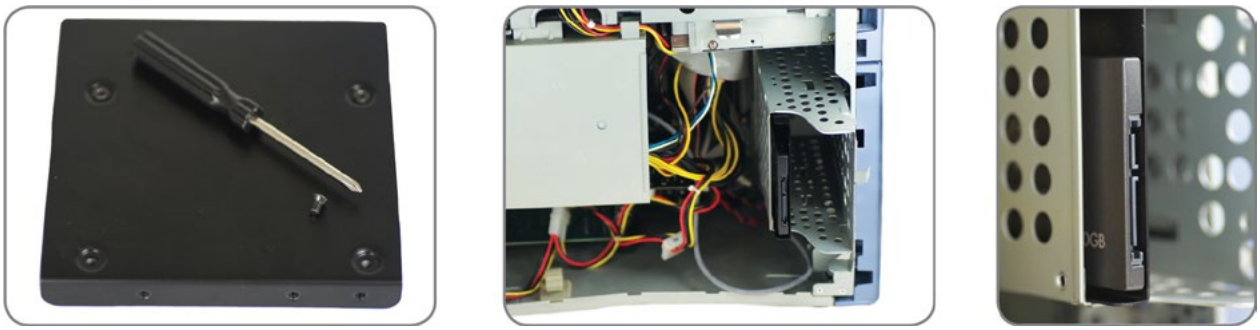
WARNING: DO NOT TOUCH the connector pins and contacts on either device

- Close the 2.5" USB Enclosure housing and fasten the housing screws to secure.
- Connect the USB cable to the enclosure.
- Your Hard Drive will be ready to use as a secondary boot drive or external storage device once your PNY or other SSD is installed in your Notebook or Desktop.

6. Install the PNY or other SSD in Your Computer:
   - Refer to your system manufacturer's User Guide for instructions on installing a storage drive in your system's notebook or desktop drive bay.

• FOR NOTEBOOKS : If applicable, assemble the PNY or other SSD with your system's hard drive bracket and insert it into your system's drive bay.

• FOR DESKTOPS : If applicable, assemble the PNY or other SSD with the included 3.5" bay adapter, mounting screws and screwdriver, and insert it into your system's drive bay.



INSTALLATION COMPLETE – Please make sure all system components are securely fastened and refer to your system manufacturer's User Guide for instructions on powering your system. Power up your system and it should launch the Operating System. All of your files and programs should be the same as when your hard drive was installed.

Note: If you wish to use some of the other Acronis® TrueImage software features you will need to launch the Acronis® TrueImage software again.

Using Acronis® TrueImage – Systems With multiple Partitions

Note: If the amount of used storage on your current hard drive exceeds the available space on your new PNY or other SSD, it is recommended that you back-up the data from your current hard drive, use the "**manual**" cloning method to copy your OS, system utilities and applications, and then restore selected data onto your new PNY or other SSD. You can also remove files from your hard disk until the amount of used storage is less than the available space on your new PNY or other SSD drive.

Systems often consist of multiple drive partitions. The additional drive partitions could, for example, consist of a RECOVERY partition and, a DATA partition. The following procedure details the steps in cloning a typical system with both of these partitions.

The following procedure assumes the SSD is in the "Out of Box" condition, has not been pre-formatted, that you have installed the SSD in the external enclosure and have connected the supplied USB 3.0 cable to an available USB 3.0 port (recommended for best performance) or USB 2.0 port. The following steps detail a typical notebook transfer, but are also relevant for desktops.

The procedure also assumes that the SSD capacity is 120GB, but is also relevant for other capacities, once you have ensured there is adequate SSD capacity to clone the system drive.

Note: The following steps are also useful in cloning other assigned partitions on the main HDD.

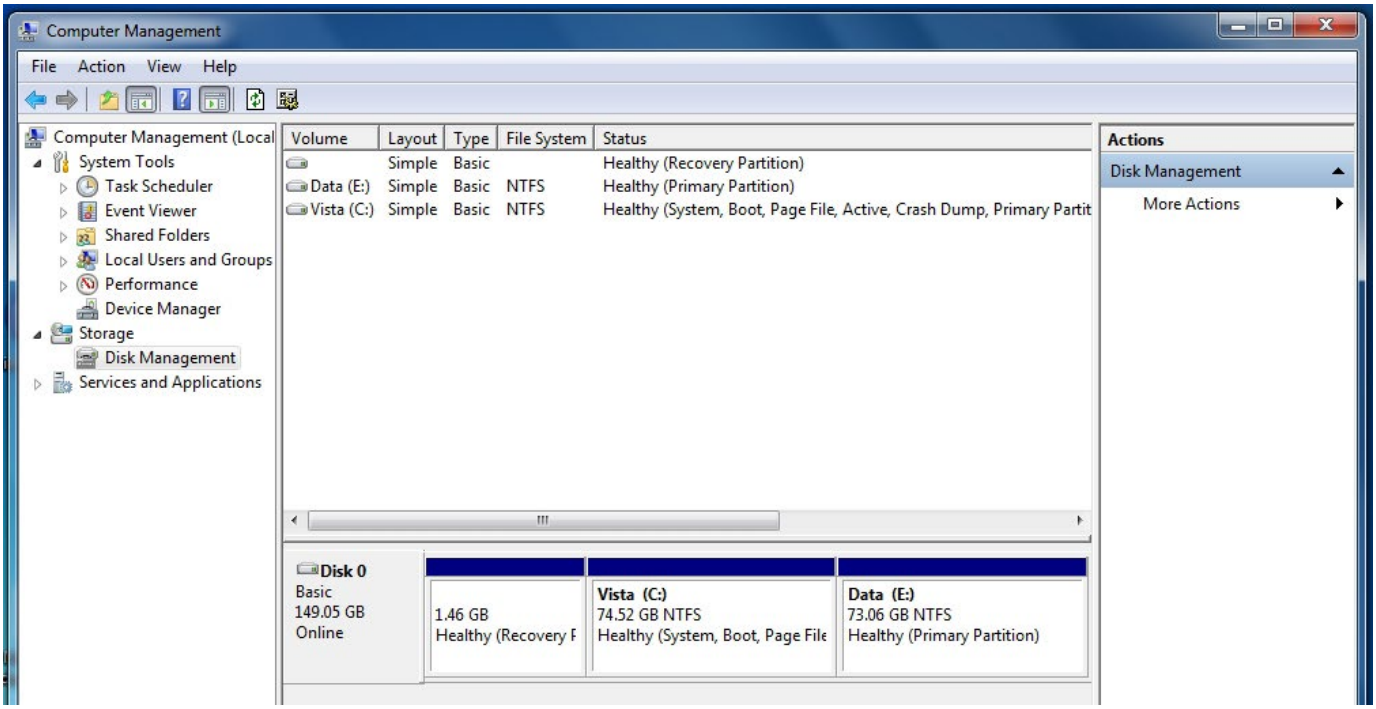
1. Turn on your PC system.
Note the size for each partition on your HDD by going to your system's **Computer management screen**.

- **"Windows XP, Vista or 7 users: from the Start menu, type in the "Search Programs and files"** search Box, click on Administrative Tools, Double-click on Computer Management and then click on Disk Management. The Computer Management window displays all internal drives (HDD or SSD) and external drives (portable hard drives, USB drives, flash memory cards, etc.) in your system. It is recommended that you remove all external storage devices.

- Note the File System and Capacity required for each partition (in this example «Vista» (C:) and Data (E:)) and write down the values for use later. Also write down the hidden "**Recovery**" partition capacity, if present. These partitions will be cloned onto your new PNY or other SSD,.

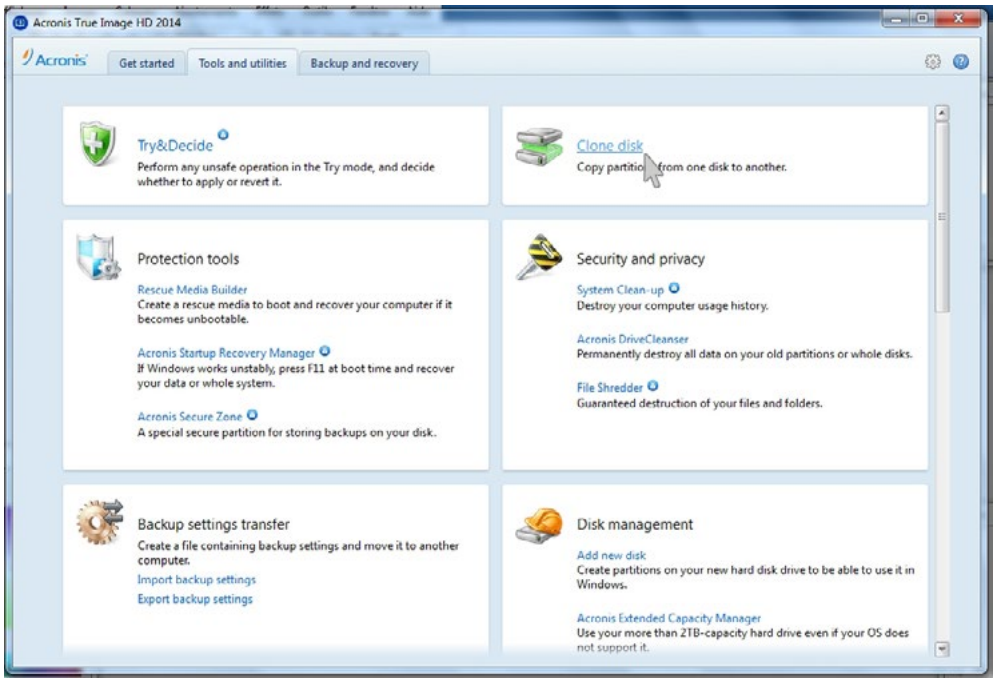
• In the following example :

• **Recovery partition :** 1,46 GB..... Hidden partition for system recovery
• **Data (E:) :** 73,06 GB.....Partition dedicated to data storage
• **«Vista» (C:) :** 74,52 GB..... .....Partition dedicated to system and softwares

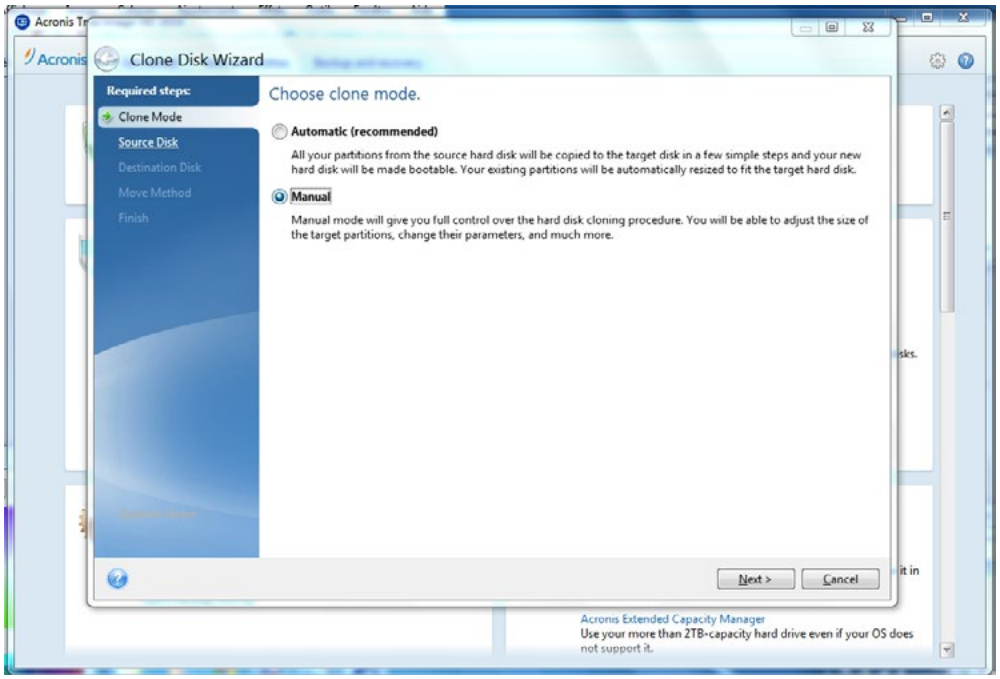


2.To get started:
Verify you have properly connected the PNY or other SSD to your system using the internal SATA III data cable enclosure, and your power supply cable .

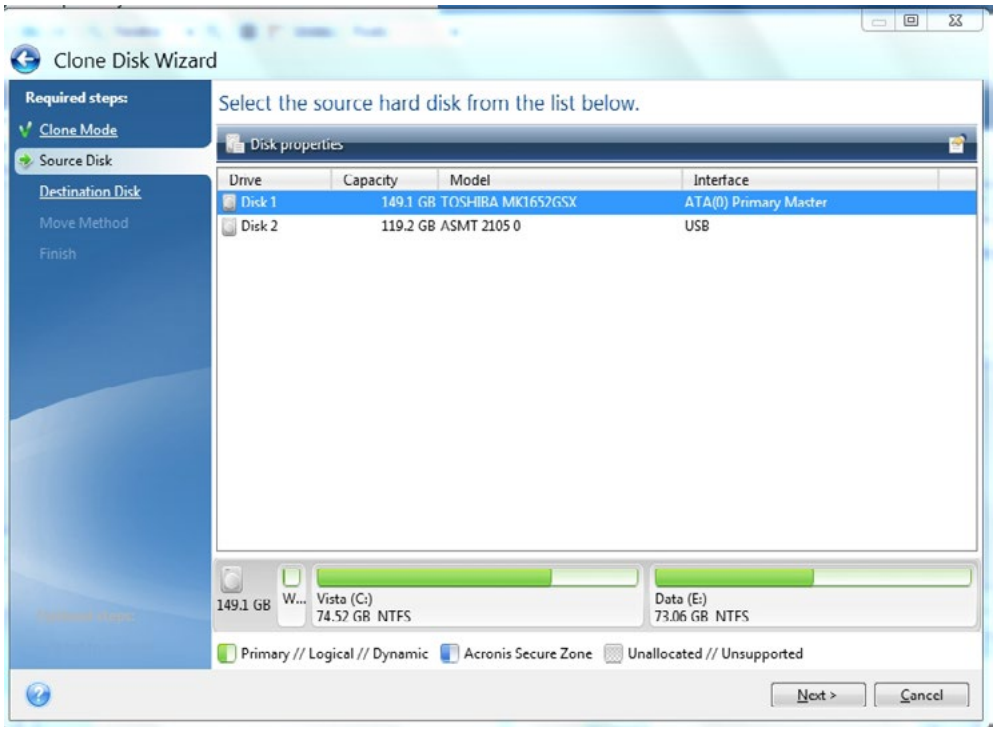
• Double click on the Acronis® TrueImage icon to launch the software.
• On the « Tools & Utilities » tab, select « Clone disk »



3. Select Clone Mode
   • In the Clone Disk Wizard, select **manual mode** and click **Next**.

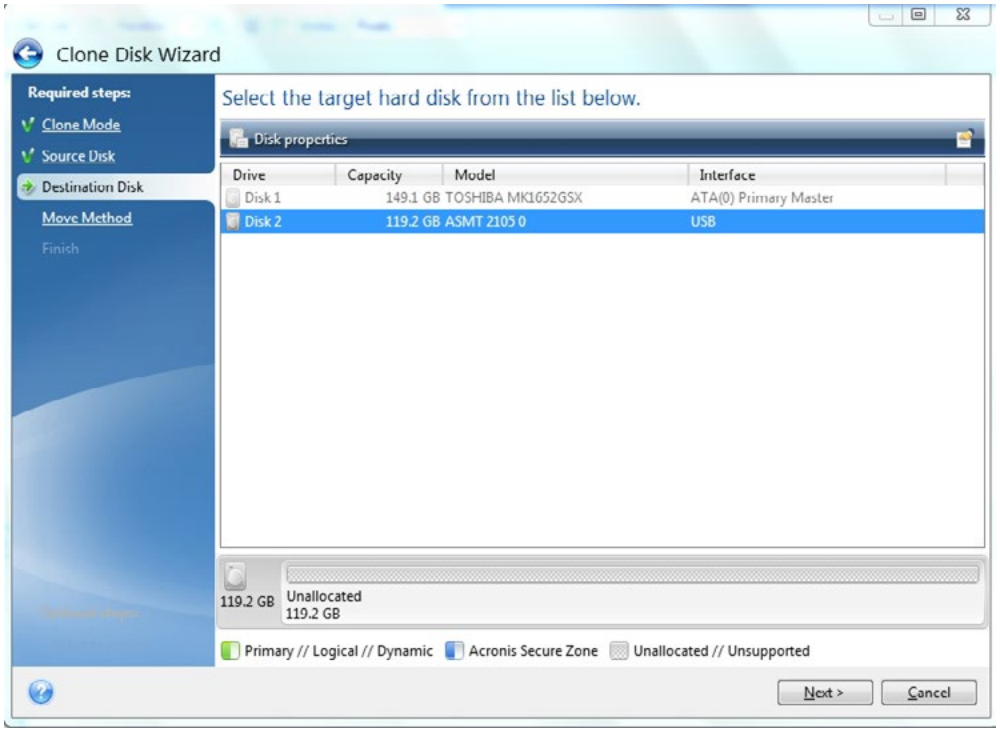


4. Select a Source Disk
   • The system drive partitions will show (ignore the drive letters as they are determined by position on the disk).
   • Select the disk as the **Source Disk** and click **Next** to continue.



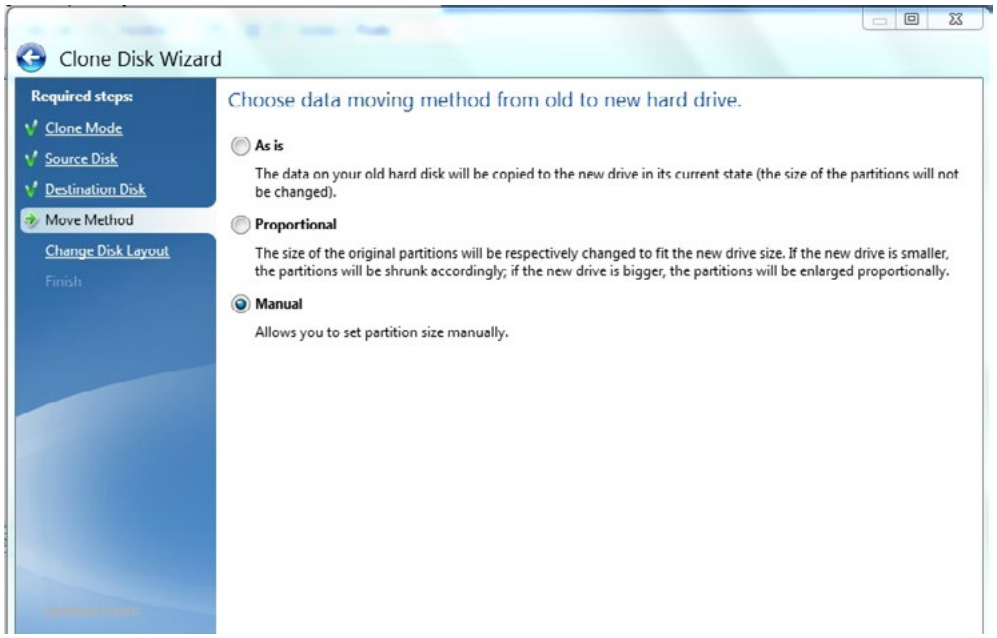
Note: If the SSD has been pre-formatted, it will also appear in this window, so be sure to ignore it and select the correct Source Disk.

5. Select a Destination Disk.
   • After selecting the Source Disk, select the PNY or other SSD as the destination where the disk information will be copied. The previously selected source becomes grayed-out and disabled for selection.
   • Select the PNY or other SSD as the **Destination Disk** and click **Next** to continue.



6. Move Method.
When you select the manual cloning mode, Acronis® TrueImage will offer you the following data move methods:
   • **As is** - a new partition will be created for every old one with the same size and type, file system and label. The unused space will become unallocated.
   • **Proportional** - the new disk space will be proportionally distributed between cloned partitions.
   • **Manual** - you will specify a new size and other parameters yourself.
   The manual transfer method enables you to resize partitions on the new disk. By default, the program resizes them proportionally.

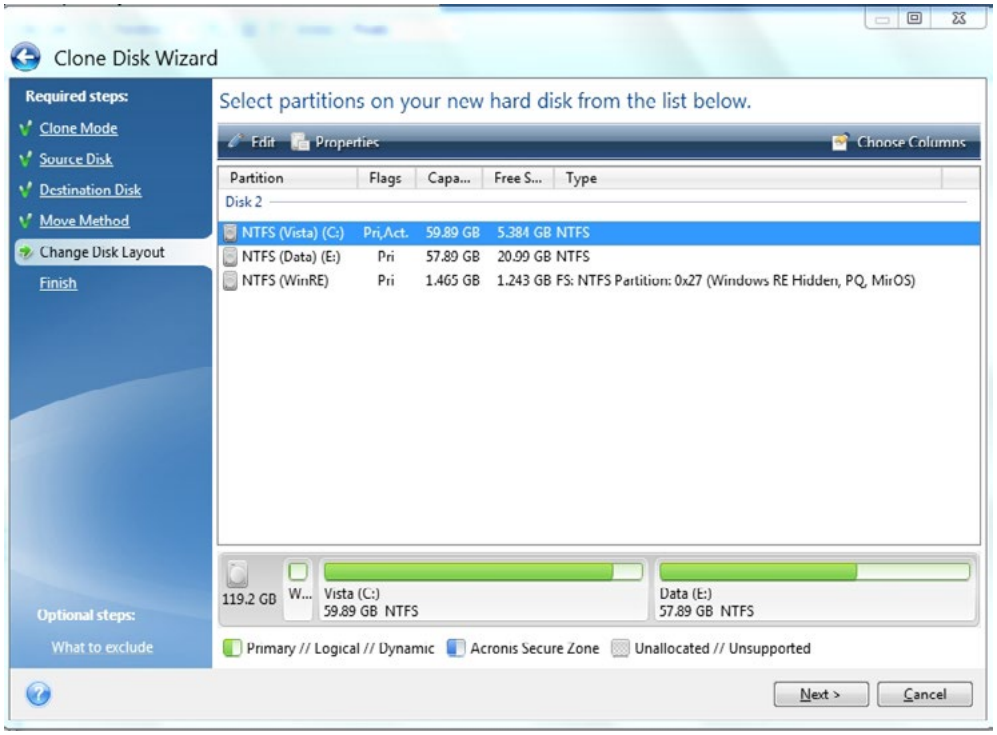
   • Select **manual** and click **Next**.



7. Manual Partitioning - Clone Disk Layout

• The window displays rectangles indicating the source hard disk, including its partitions and unallocated space, as well as the new disk layout.

• Along with the hard disk number, you can see disk capacity, the label, volume and file system information. Different volume types, including primary, logical and unallocated space are marked with different colors.



• The disk layout will need to be changed to ensure there is enough space available for the «Vista» (system) and the Recovery (hidden) partitions. Notice that the available capacity on the SSD is **119.24 GB**.

• The partitions need to be modified, using the capacities that you recorded at the beginning of this procedure. In this example, they were based on the main (C:) disk and had the following capacities:

- **Recovery partition :** 1,46 GB..... Hidden partition for system recovery
- **Data (E:) :** 73,06 GB.....Partition dedicated to data storage
- **«Vista» (C:) :** 74,52 GB..... .....Partition dedicated to system and softwares

• Here, priority is given to the Recovery and System partitions. Both of them must be similar to the standard hard drive layout. Recovery (hidden) contains data for system installation, and «Vista» (system) will need some free space to allow future software installations; all free space left apart from these partitions will be used for data storage.

As automatically offered by Acronis® TrueImage, partitions are proportionally resized :

- **Recovery partition :** originally 1,46 GB..... is not resized
- **Data (E:) :** originally 73,06 GB.....is resized at **57,89 GB**
- **«Vista» (C:) :** originally 74,52 GB..... .....is resized at **59,89 GB**

In this example, we want to restore «Vista» at its original size of 74,52 GB. To do so, we need to free space from the Data (E:) partition with the following calculation :

New size for Data (E:) partition = Available SSD capacity - (Recovery + «Vista»)
New size for Data (E:) partition = 119,24 - (1,46 + 74,52) = **43,26 GB**

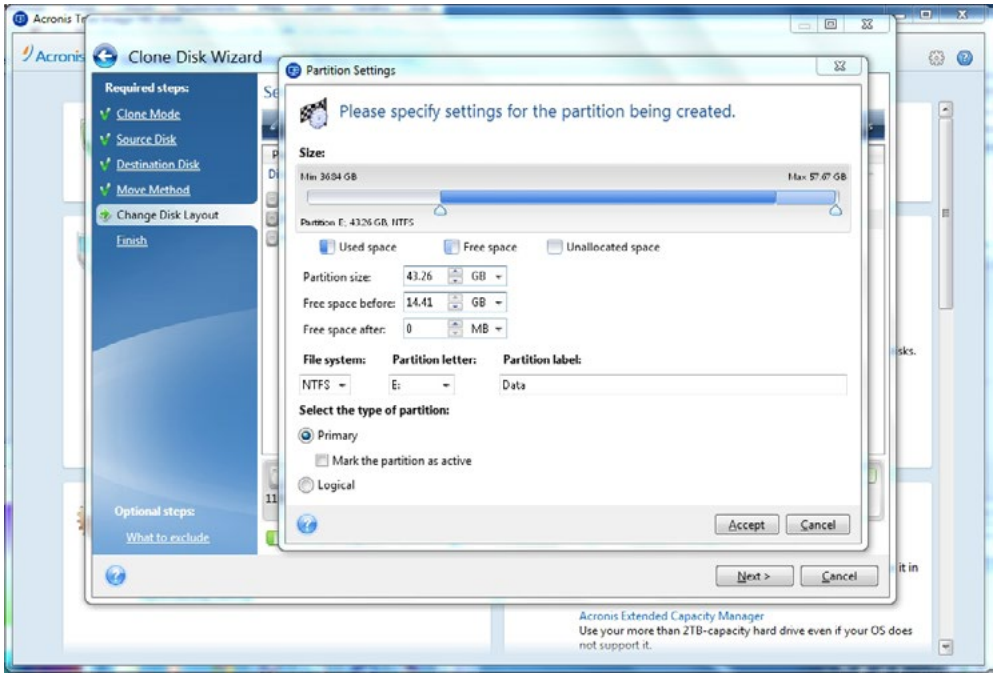
Note: At any time during the partition setup, you can cancel and "re-tweak" the number if necessary.

8. Partition the PNY or other SSD

• Identify first the partitions order in the Clone Disk Wizard, here «Vista» (C:) is first, Data (E:) is second and Recovery (hidden) is last. To allow the software to resize «Vista» (C:) with the unallocatd space we're about to create with Data (E:); this space will have to end up between C: and E: in the graphical display.

• To free some space from the Data (E:) partition, highlight it and double click to bring up the **Partition Settings** window.

• Change the **Data (E:) Partition Size** which will be "43,26 GB" for this example.



• Acronis® TrueImage will automatically allocate the free space after the partition. In this case, we need this space to appear **before** the partition to add it to the **«Vista» (C:)** space. So, make sure to set the «Free Space After» box at 0 (the unallocated space we're about to create should appear in the «Free Space Before» box).

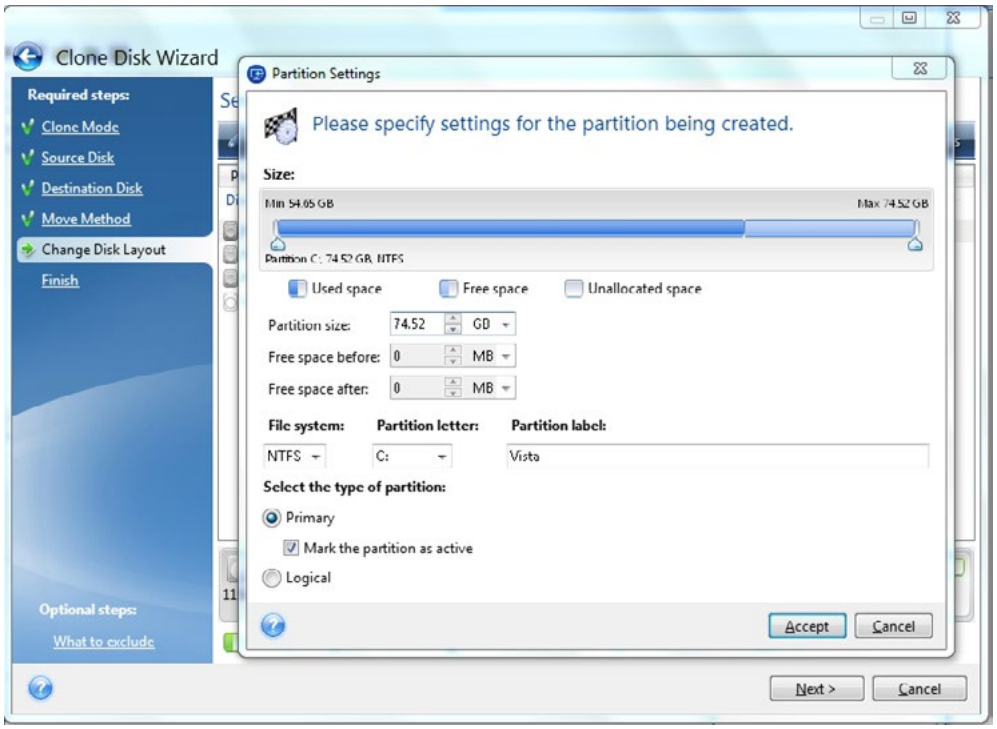
Note: The partition size can also be changed by dragging the arrow on the right side of the capacity gauge diagram.

• Click **accept**.

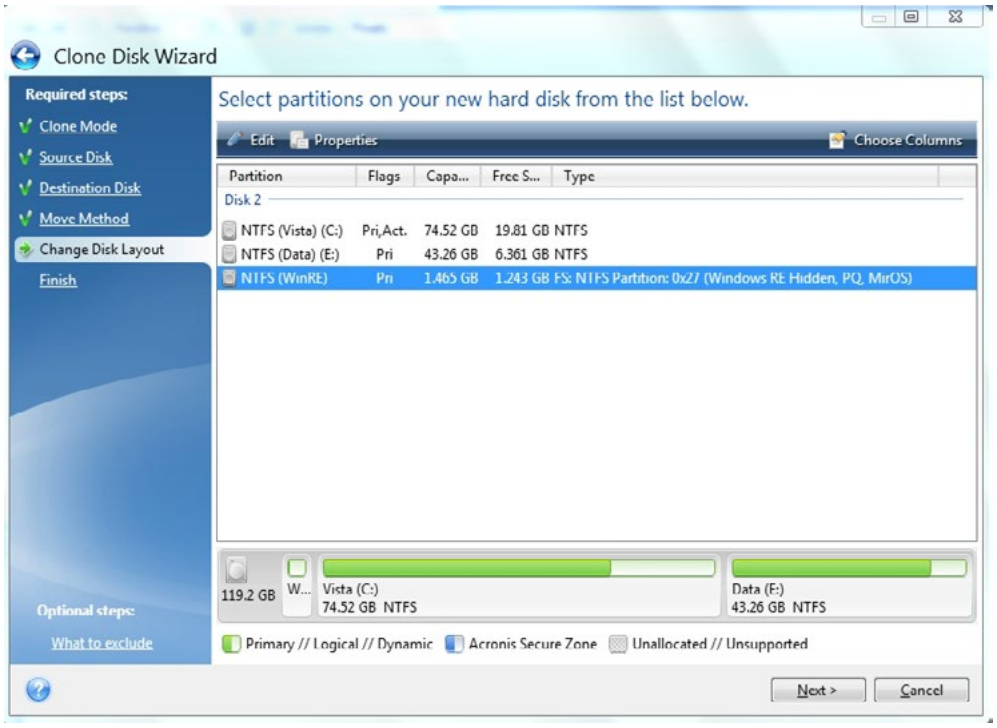
• Leave the **File System** field as "NTFS" and the drive set to "Primary" in the **Select the type of Partition** field.

• The partition display now reflects some "unallocated" space, in this example it appears between the «Vista» (C:) partition and the Data (E:) partition.

• Let's now reallocate this space to the «Vista» (C:) partition, highlight it and double click to bring up the **Partition Settings** window.



• Resize the partition at its original size of 74,52 GB.
• Leave the File System field as "NTFS" and the drive set to "Primary" in the Select the type of Partition field.
• After clicking "**Accept**" the disk layout should resemble the screenshot below.



• Click **Next** to continue.

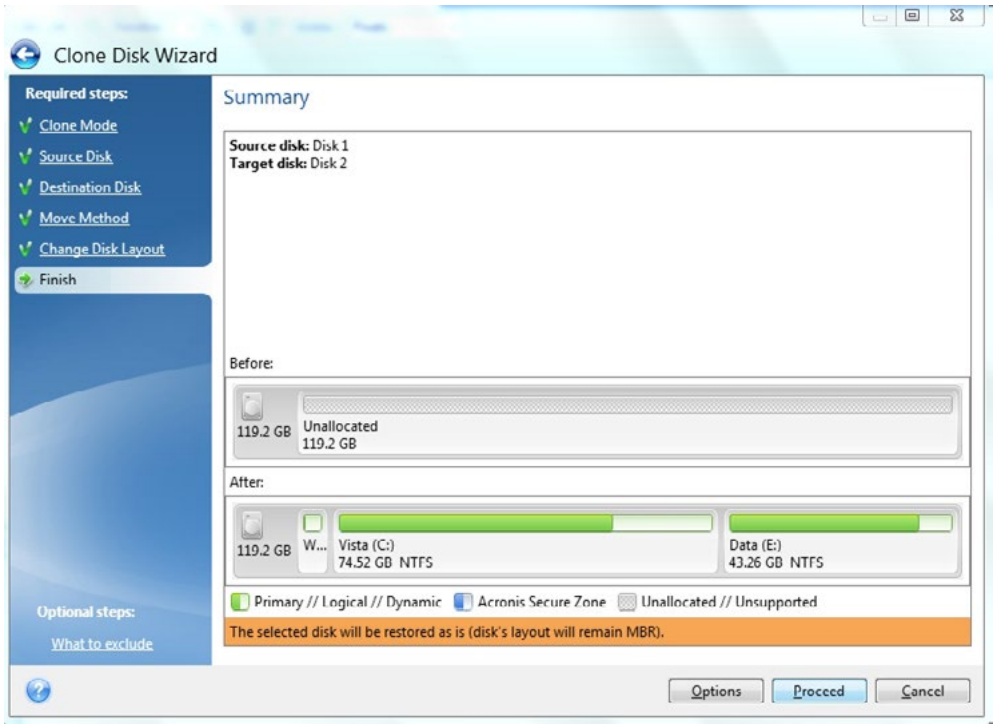
Note: All space must be allocated before proceeding to the next step.

9. Cloning Summary

The Cloning Summary window graphically (as rectangle bars) illustrates information about the source disk (partitions and unallocated space) and the destination disk layout. Along with the disk number, some additional information is provided: disk capacity, label, partition and file system information.

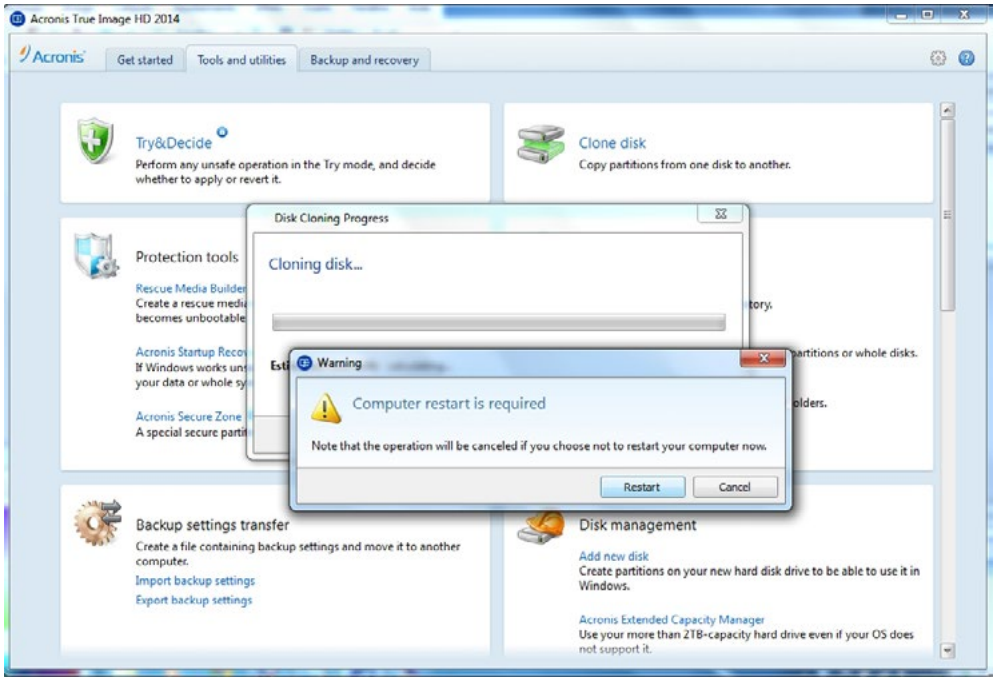
• The windows compares the before and after partitions of the SSD and provides the last chance to make any changes by selecting Cancel to return to the main screen and start over.

WARNING: Clicking any previous step on the sidebar in this window will reset all size and location changes that you've selected, so you will have to specify them again.

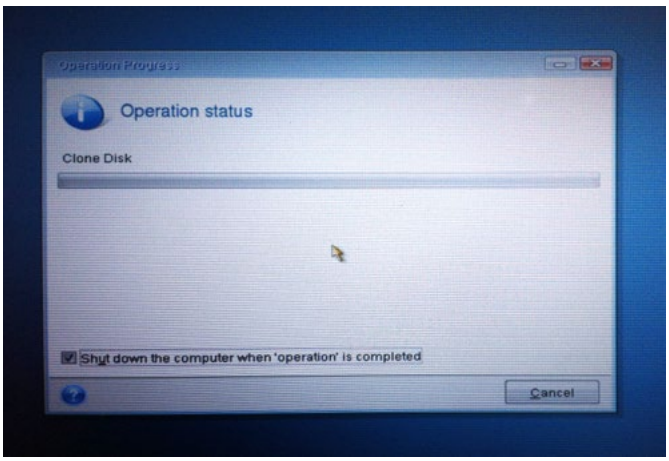


10. Cloning

• Click **Proceed** to start the loading process



• The cloning process will ask for a computer restart. Click Restart to start the process.
• The Acronis® TrueImage loader will start with the computer and launch the cloning process;



• It is recommended that the "**Shut down the computer when Clone Disk is completed**" box is checked to prevent rebooting to the cloned disk.

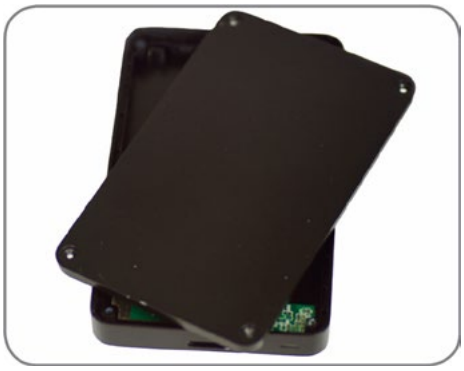
MANUAL CLONING COMPLETE – Your PNY or other SSD is now ready to replace your internal storage drive.

11. Remove and Transfer Your Current System Hard Drive to the Portable Drive Enclosure:
    • Refer to your system manufacturer's User Guide for instructions on locating and removing the hard drive.
    • Carefully remove the system hard drive and disassemble the hard drive bracket, if present.

⚠ **WARNING: DO NOT** Discard the drive bracket or screws– they will be used when installing the SSD.

• Open the 2.5"external USB Enclosure by locating the housing screws and using the screwdriver provided to remove screws.

• Remove the PNY or other SSD and set it aside.



12. Locate the external USB Enclosure's SATA drive connector and align it with your hard drive's SATA pins, pushing them together until the drive is securely in place.

⚠ **WARNING: DO NOT TOUCH** the connector pins and contacts on either device.

• Close the 2.5"external USB Enclosure housing and fasten the housing screws to secure.
• Connect the USB cable to the enclosure.
• Your Hard Drive will be ready to use as a secondary boot drive or external storage device once your PNY or other SSD is installed in your Notebook or Desktop.

13. Install the PNY or other SSD in Your Computer:
• Refer to your system manufacturer's User Guide for instructions on installing a storage drive in your system's notebook or desktop drive bay.

• **FOR NOTEBOOKS :** If applicable, assemble the PNY or other SSD with your system's hard drive bracket and insert it into your system's drive bay.

• **FOR DESKTOPS:** If applicable, assemble the PNY or other SSD with the included 3.5" bay adapter, mounting screws and screwdriver, and insert it into your system's drive bay.

INSTALLATION COMPLETE – Please make sure all system components are securely fastened and refer to your system manufacturer's User Guide for instructions on powering your system. Power up your system and it should launch the Operating System. All of your files and programs should be the same as when your hard drive was installed.

Note: Proceed to "**Appendix: Preparing Your System After Install – Windows XP/Vista/7/8 Users**" to optimize your system to the SSD"

Note: It may be necessary, after installation of the cloned SSD to modify the drive letters to be equal to the drive letters of the original system to maintain recovery or tools functionality. Please refer to your operating system help menu for instructions on modifying drive letters.

Appendix: Preparing Your System after install – Windows XP/Vista/7/8 Users

After successfully installing your SSD in a Windows XP or Vista/7/8 environment, it is recommended that you perform these additional steps to optimize your system to take advantage of your SSD features:

- Disable Sleep Mode
- Disable Defragmentation
- Disable Indexing (If SSD is primary Drive)

WARNING: Failure to prepare Windows XP/Vista/7/8 operating systems to use SSDs may result in decreased SSD performance and reduced system responsiveness.

1. Disable Sleep Mode, Use Hibernation if Necessary
   - Open the Windows Command Prompt:
   - Windows XP: Go to the Start menu and type cmd.exe in the Run field
   - Windows Vista: Go to the Start menu and type cmd in the Search field and then click cmd.exe in the Search Results field
   - In the Command Prompt type: powercfg /hibernate on (include the spaces between the letters)
   - In the Control Panel click Power Options and click the link that says Change when the computer sleeps
   - Select Never for the Sleep Settings
   - Click on Change advanced power settings
   - If you expand the Sleep setting, you can change when your computer sleeps to Never. Turning off Allow hybrid sleep will let you choose Hibernate from the start menu if you'd like to be able to do it manually

2. Disable Disk Defragmentation
   - Go to the Start menu, right click on the Computer icon, and select **manage** to enter **Computer management**
   - Under **Services and applications**, go to **Services**, right click **Disk Defragmenter** and select **Properties**
   - Change the **Startup type** to **Disabled** and select **OK**

3. Disable Indexing (If SSD is the Primary Drive)
   • Go to **my Computer,** right click the PNY or other SSD, and select **Properties**
   • At the bottom of the window, uncheck **allow Indexing Service to index this disk for fast file searching**
   • To disable the indexing of file attributes, go back to the "Services" section of **Computer management** (as described above), but this time, right click **Windows Search** and select **Properties**
   • Change the Startup Type to **Disabled**

TROUBLESHOOTING

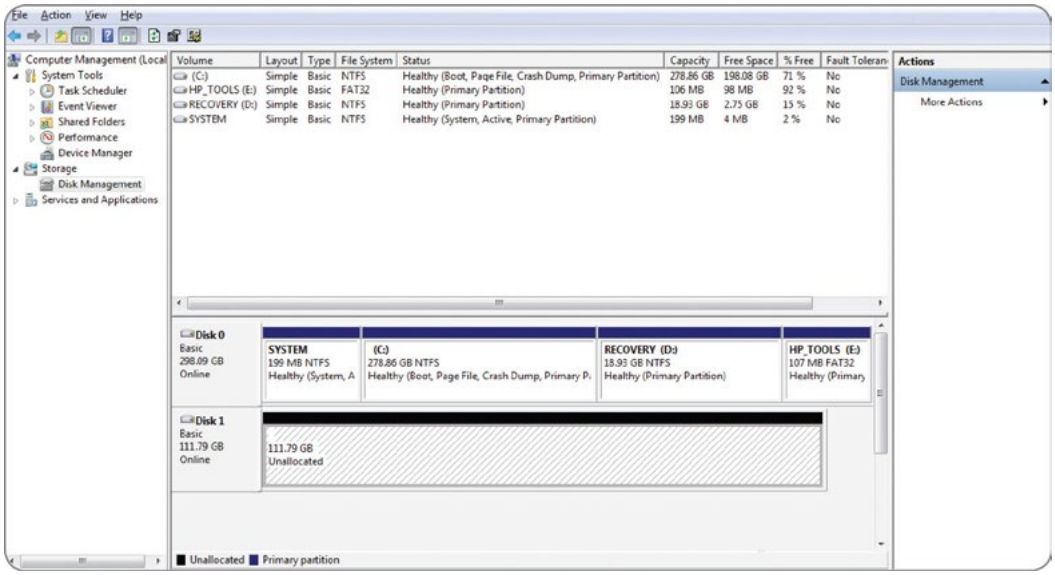
Note: If you are having trouble with your installation and the topics below do not address or resolve the issue, please contact PNY Support : www.pny.com for US and www.pny.eu for Europe.

BIOS cannot detect SSD
• Make sure each cable is connected correctly.
• Assure that AHCI is not enabled in the BIOS (if supported).
• If the cables and jumper settings are ok, make sure the BIOS settings are correct. Please refer to the user's manual provided by your system or motherboard manufacturer for details about the BIOS setup.

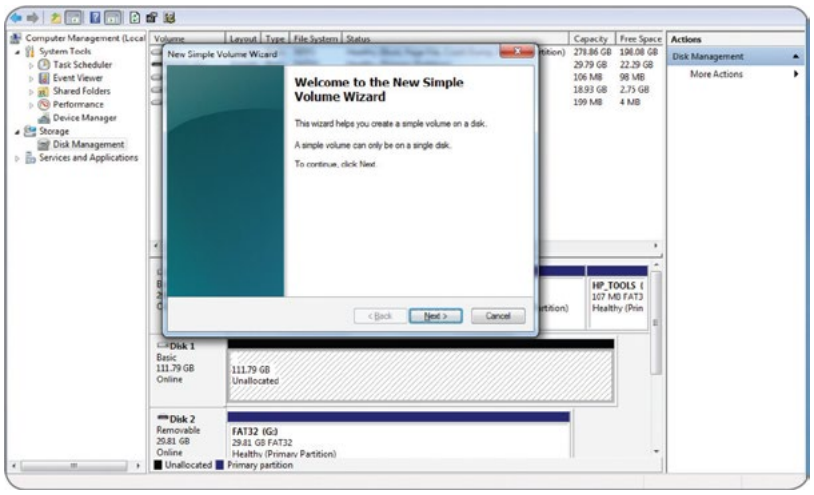
BIOS detects the SSD, but it is not visible to an operating system
• Assure that the SSD was partitioned and formatted correctly. Depending on the operating systems, partitions can be generated by Fdisk or during the OS installation. Please refer to the user's manual that came with the OS, for details about partitioning and formatting.

An error occurs when restarting the computer after installing the OS
• Disable AHCI mode in the BIOS setup.
• Install the latest SATA device driver (usually available on your computer or motherboard manufacturer's website).
   – For newer systems you may need to upgrade the manufacturer's chipset drivers, which include the SATA drivers

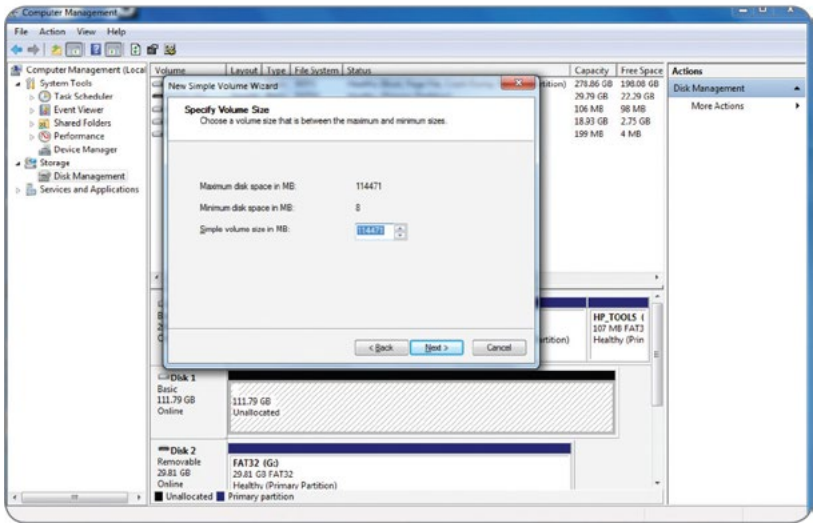
The system fails to detect and format the SSD
• From the **Start** menu, go to **administrative tools**, select **Computer management** and then **Disk management.**
• The Disk Management window displays all internal drives (HDD or SSD) and external drives (portable hard drives, USB drives, flash memory cards, etc.) in your system. It is recommended that you remove/eject all external storage devices in order to accurately view your system partition(s).



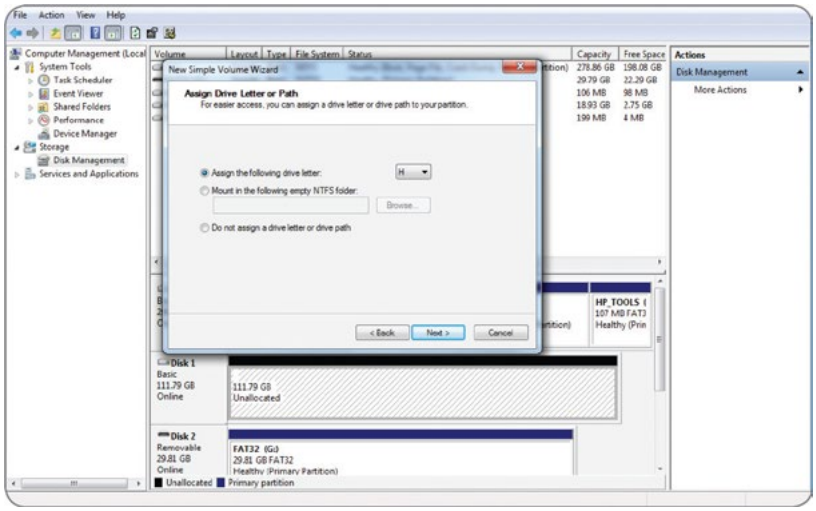
• The PNY or other SSD will display the usable storage capacity and show up as **Unallocated**, noted by the black banding.
• Right click on the Unallocated space to launch the **New Simple Volume** wizard.



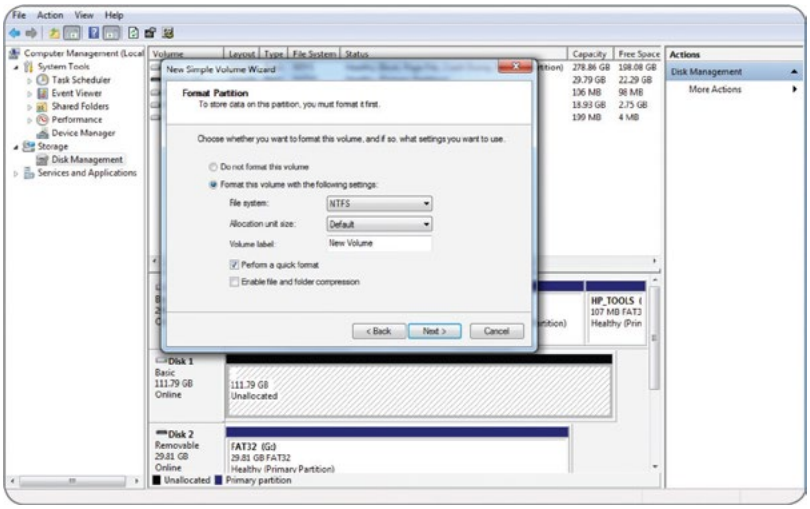
• In the wizard select **Next** to specify the volume size which is set to the maximum disk space by default.
• Leave the default maximum unchanged and select **Next**.



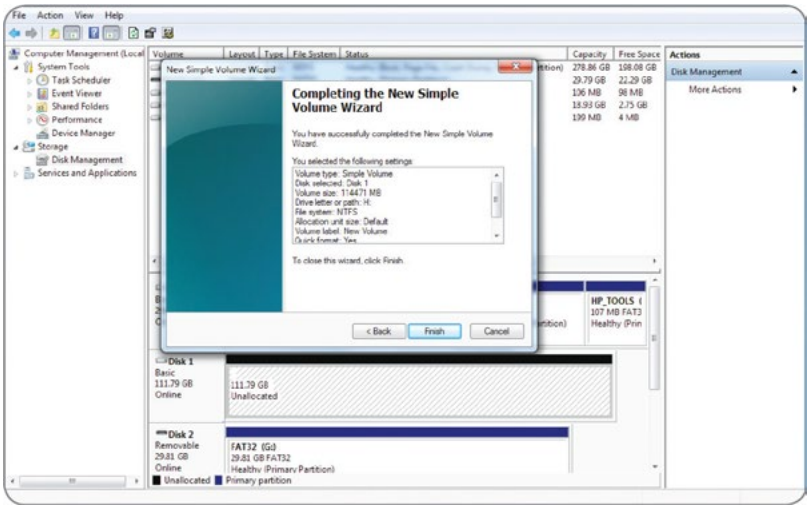
• The wizard will assign a default drive letter, or you can select another unused letter. When complete, select Next to go to the Format partition screen.



• Select **format this volume**... set the File System to **NTFS**, Allocation unit size to **Default** and leave the Volume Label unchanged. Select **Next** to review your.



• Select **Finish** to format your PNY or other SSD. This process may take a few minutes.



Limited 2 Years Warranty, see **www.pny.com** for US and **www.pny.eu** for Europe. For regulatory declaration of conformity and operating instructions visit **www.pny.com** for US and **www.pny.eu** for Europe.

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